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APPLICANT: SONY CORP;

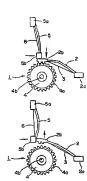
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TITLE

: BRAKE DEVICE

INVENTOR: SENSHIYUU YOUICHIROU;



ABSTRACT :

PURPOSE: To enhance thinning and reduction in weight of the whole device and simplification of the structure by braiking a roteting body by the elastic deformation of a first elastic body by a linear shape memory alloy contracted by decidification, keeping the braked state by a second elastic body, and releasing the braked state by the elastic deformation of the second elastic body.

CONSTITUTION: When the linear shape memory alloy 3 of a first elestic body 2 is electrified, the shape memory alloy 3 is contracted, the elestic body 2 is electrified, the shape memory alloy 3 is contracted, the electrified y2 is electrified, the shape memory alloy 3 is contracted, the electrified by end part 2b is engaged with the teeth part 4a of a gear 4 to brake the gear 4. At this time, a second elestic body 5 is in a restored state, and the front surface of its top end part 5b is touched by the back surface of the top end part 2b of the elastic body 2 to keep the braked state. When a linear shape memory alloy 6 of the elastic body 5 is electrified, the shape memory alloy 6 is contracted, the elastic body 5 is contracted, elestically deformed, curved, and separated from the elastic body 2. Hence, the elastic body 2 is restored to release the brake of the gear 4. The front surface of the top end part 2b is touched by the back surface of the top end part 5b of the elastic body 5 to keep the elastic bedromation of the elastic body 5 is contracted.

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